

# SECTION 1

## Introduction

### 1.1 Purpose of the Long Term Monitoring Plan

The Michigan Department of Environmental Quality (MDEQ) requested that Camp Dresser & McKee (CDM) prepare a long term monitoring program that would accomplish the following:

- Develop a baseline data set for polychlorinated biphenyls (PCBs) in surface water, sediments, semi-permeable membrane devices, and fish tissue prior to remediation at selected locations in the Kalamazoo River and Portage Creek.
- Document and monitor levels of PCBs in abiotic and biotic media after the remediation activities have occurred.

Remediation of PCB contaminated sediments and flood plain soils has already been initiated on Portage Creek in Kalamazoo, Michigan and the Kalamazoo River near the Georgia-Pacific mill. The Long Term Monitoring Plan will address post-remediation sampling and monitoring at these sites, and develop a baseline data for other sites that will be remediated on the Kalamazoo River. Specific remediation activities will be site specific, and the goal of this Long Term Monitoring Plan is to develop a generic sampling strategy that would address different remediation scenarios for the Allied Paper, Inc./Portage Creek/Kalamazoo River (API/PC/KR) site.

The activities, methods, and schedules described in this Long Term Monitoring Plan are intended to address the first goal stated above; collection of baseline PCB contamination data from the API/PC/KR study area in 1999, prior to remediation. Individual remedial activities that will be undertaken in the future will have their own monitoring programs that will assess any short term benefits and/or impacts associated with the remediation. Thus, localized remediation monitoring - undertaken during and just after the remediation (i.e. performance standards)- is not covered in this FSP.

Sampling and monitoring will be conducted in conjunction with the MDEQ Surface Water Quality Division. The Surface Water Quality Division and their designated laboratory will be responsible for processing all fish, surface water and sediment samples for PCB analysis. Additionally, MDEQ will work closely with National Oceanic and Atmospheric Administration (NOAA) and the U.S. Fish and Wildlife Service (USFWS) during this long term monitoring effort to ensure their goals and objectives for this site are addressed.